

FEDERAL AVIATION ADMINISTRATION
FLIGHT STANDARDS SERVICE
RNAV (GPS) STANDARD INSTRUMENT APPROACH PROCEDURE
TITLE 14 CFR PART 97.33

Bearings, headings, courses, tracks and radials are magnetic. Elevations and altitudes are in feet, MSL, except HAT, HAA, TCH, and RA. Altitudes are minimum altitudes unless otherwise indicated.
 Ceilings are in feet above airport elevation. Distances are in nautical miles unless otherwise indicated, except visibilities which are in statute miles or feet RVR.

<u>AIRPORT ID</u> KBDN	<u>PROCEDURE NAME</u> RNAV (GPS) Y RWY 16	<u>ORIGINAL/AMENDMENT</u> 3	<u>CITY</u> BEND	<u>STATE</u> OR		
<u>AIRPORT ELEVATION</u> 3459	<u>TDZE</u> 3432	<u>SUPERSEDED</u> RNAV (GPS) Y RWY 16	<u>ORIGINAL/AMENDMENT</u> 2B	<u>DATED</u> 10/12/2017	<u>MAG VAR</u> 14E	<u>EPOCH YEAR</u> 2025
<u>FACILITY</u> RNAV	<u>COORDINATES OF FACILITIES</u>	<u>ACTUAL EFFECTIVE DATE</u> 10 AUGUST 2023	<u>REQUIRED EFFECTIVE DATE</u> ROUTINE	<u>CANCEL/SUSPEND</u>		

TERMINAL ROUTES

<u>FROM</u>	<u>FIX TYPE</u>	<u>TO</u>	<u>FIX TYPE</u>	<u>LEG TYPE</u>	<u>FO/FB</u>	<u>RNP</u>	<u>COURSE</u>	<u>DISTANCE</u>	<u>ALTITUDE</u>
URBIA		DSD VORTAC		TF	FO	1.00	327.53	15.00	6300
DUMMP	IAF	DSD VORTAC	NOPT	TF	FB	1.00	214.55	10.00	6000
HERBS	IAF	DSD VORTAC	NOPT	TF	FB	1.00	171.57	10.00	6000
HORRN	IAF	BOTTL	NOPT	TF	FB	1.00	119.05	10.00	9000
BOTTL		DSD VORTAC		TF	FB	1.00	119.19	10.00	6000
EENIE	IAF	TABSE	NOPT	TF	FB	1.00	086.26	5.00	7900
TABSE		DSD VORTAC		TF	FB	1.00	086.34	10.00	6000
SNOKY	IAF	FOSNI	NOPT	TF	FB	1.00	070.96	6.00	9500
FOSNI		DSD VORTAC		TF	FB	1.00	071.06	10.00	6000
DSD VORTAC	IF/IAF	FOGIV		TF	FB	1.00	128.96	3.99	5400
FOGIV		COMEK		TF	FB	1.00	129.01	2.01	4900
COMEK	FAF	HONDU	MAP	TF	FO	0.30	153.34	3.87	
HONDU	MAP	3780 MSL		CA			153.34		
3780 MSL		HITUP		DF	FB	1.00			
HITUP		REMT		TF	FO	1.00	064.00	10.50	7400

QUALITY
8
CHECKED

MISSED APPROACH

MAP:

LP: HONDU
LNAV: HONDU

MISSED APPROACH INSTRUCTIONS:

CLIMB TO 7400 DIRECT HITUP AND ON TRACK 064.00 TO REMTE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7400.

ALTERNATE MISSED APPROACH INSTRUCTIONS:

PROFILE:

1. PT	SIDE OF COURSE	OUTBOUND	FT WITHIN	MILES OF	(IAF)
2. HOLD NW DSD VORTAC, LT, 128.96 INBOUND, 6000 FT. IN LIEU OF PT (IAF), MAX 10000.					
3. FAC: 153.34	FAF: COMEK		DIST FAF TO MAP: 3.87		DIST FAF TO THLD: 4.37
4. MIN ALT: DSD VORTAC 6000, FOGIV 5400, COMEK 4900					
5. DIST TO THLD FROM OM:	MM:	IM:	150 HAT:	GS ANT:	
6. MIN GP INCPT:	GP ALT AT FAF :			OM:	MM: IM:
7. GP ANGLE:	34:1: IS NOT CLEAR	20:1: IS CLEAR	TCH:		
8. MSA FROM: RW16 11600					

PBN REQUIREMENTS NOTE:

RNP APCH - GPS.

NOTES:

CHART NOTE: RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED.
CHART PROFILE NOTE: VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET}).
CHART NOTE: VDP NA WHEN USING REDMOND ALTIMETER SETTING.
CHART NOTE: WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE REDMOND ALTIMETER SETTING AND INCREASE ALL MDAS 100 FEET AND LP VISIBILITY CATS C AND D 3/8 SM, LNAV VISIBILITY CATS C AND D 1/4 SM, AND CIRCLING VISIBILITY CAT C 1/2 SM.
CHART SPEED ICON IN PLANVIEW AT EENIE: MAX 250 KIAS.

ADDITIONAL FLIGHT DATA:

HOLD N, RT, 200.00 INBOUND.
CHART FAS OBST: 3559 TREE 440542N/1211234W, 3519 TREE 440607N/1211142W.
CHART VDP AT 0.57 NM TO HONDU.
WAAS CHANNEL # 90137
REFERENCE PATH ID: W16B
FAC CROSSES RWY C/L EXTENDED 3000 FT FROM THLD.
CHART CIRCLING ICON.
COMEK TO RW16: 3.12/50.
CHART PLANVIEW NOTE: FINAL APPROACH COURSE OFFSET 12.69 DEGREES.
FTP HAE: 1016.3 M



MINIMUMS:
TAKEOFF: SEE FAA FORM 8260-15A FOR THIS AIRPORT

ALTERNATE: NA ☐ STANDARD - CAT D 1200-3, NA WHEN LOCAL WEATHER NOT AVAILABLE.

CATEGORY:	A			B			C			D			E		
FINAL TYPE	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA	DA/MDA	VIS	HAT/HAA
LP MDA	3780	1	348	3780	1	348	3780	1	348	3780	1	348			
LNAV MDA	3820	1	388	3820	1	388	3820	1 1/8	388	3820	1 1/8	388			
CIRCLING	3960	1	501	3980	1	521	4120	1 3/4	661	4640	3	1181			



CHANGES - REASONS

1. AIRPORT ELEVATION UPDATED FROM 3460 TO 3459 AND MAGVAR UPDATED FROM 19E/1980 TO 14E/2025 - UPDATED AIRNAV AIRPORT DATA.
2. TERMINAL ROUTES: UNLESS NOTED OTHERWISE, ALL CRS DATA INCREASED 5 DEGREES - MAGVAR UPDATED.
3. TERMINAL ROUTES: URBIA TO DSD VORTAC ALT UPDATED FROM 6200 TO 6300 - NEW MAP STUDY; FPT/ATC REQUEST.
4. TERMINAL ROUTES: DUMMP, HERBS, BOTTL, TABSE AND FOSNI TO DSD VORTAC ALTITUDES UPDATED FROM 6100 TO 6000 - UPDATED TO SUPPORT 200 KIAS HOLDING AT DESCHUTES VORTAC AND CARDINAL ALTITUDE SELECTION; COORDINATED/APPROVED WITH FPT/ATC.
5. TERMINAL ROUTES: FOGIV TO COMEK ALT UPDATED FROM 4800 TO 4900 - FPT/ATC REQUEST.
6. TERMINAL ROUTES: CA ALTITUDE CHANGED FROM 3760 TO 3780 - UPDATED MAP STUDY/MDA CHANGE; IAW 8260.58B 3-5-2 B.
7. TERMINAL ROUTES: MISSED SEGMENT UPDATED FROM "HITUP TO WOTLO 066.00 AND WOTLO TO HATMO, 015.83" TO "HITUP TO REMTE 064.00, 7400" - NEW MISSED APPROACH DESIGN PER FPT/ATC REQUEST.
8. MISSED APPROACH INSTRUCTIONS: UPDATED FROM "CLIMB TO 7600 DIRECT HITUP AND ON TRACK 066.00 TO WOTLO AND ON TRACK 015.83 TO HATMO AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7600" TO "CLIMB TO 7400 DIRECT HITUP AND ON TRACK 064.00 TO REMTE AND HOLD, CONTINUE CLIMB-IN-HOLD TO 7400" - NEW MISSED APPROACH DESIGN PER FPT/ATC REQUEST; WOTLO REPLACED BY REMTE: NEW DESIGN REQUIRED FIX MOVEMENT BEYOND 1NM.
9. PROFILE LINE 2: CRS INBOUND AND MINIMUM HOLDING UPDATED FROM 123.97/6100 TO 128.96/6000 - UPDATED MAGVAR; ALTITUDE SUPPORTS 200 KIAS HOLDING AT DESCHUTES VORTAC AND CARDINAL ALTITUDE SELECTION; COORDINATED/APPROVED WITH FPT/ATC.
10. PROFILE LINE 3: FAC UPDATED FROM 148.34 TO 153.34 - UPDATED MAGVAR.
11. PROFILE LINE 4: DSD VORTAC MIN ALT UPDATED FROM 6100 TO 6000 AND COMEK MIN ALT UPDATED FROM 4800 TO 4900 - DSD VORTAC MIN ALTITUDE SUPPORTS 200 KIAS HOLDING AND CARDINAL ALTITUDE SELECTION; COORDINATED/APPROVED WITH FPT/ATC.
12. PROFILE LINE 7: ADDED 20:1 IS CLEAR - NO PENETRATIONS FOUND.
13. PROFILE LINE 8: UPDATED MSA FROM HONDU TO RW16 - PER FPT/ATC: PREFERRED MSA ESTABLISHED AT RWY 16 THRESHOLD IAW 82060.19I 2-3-2 B(2).
14. PBN REQUIREMENTS NOTES: ADDED PBN REQUIREMENTS NOTE: RNP APCH-GPS AND DELETED CHART NOTE: DME/DME RNP-0.3 - IAW 8260.19I, 8-6-8 B (2).
15. NOTES: UPDATED CHART NOTE FROM "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE REDMOND ALTIMETER SETTING AND INCREASE ALL MDAS 80 FEET, AND LP AND LNAV CATS C/D VISIBILITY 1/4 MILE, AND CIRCLING CAT C VISIBILITY 1/2 MILE" TO "WHEN LOCAL ALTIMETER SETTING NOT RECEIVED, USE REDMOND ALTIMETER SETTING AND INCREASE ALL MDAS 100 FEET AND LP VISIBILITY CATS C AND D 3/8 SM, LNAV VISIBILITY CATS C AND D 1/4 SM, AND CIRCLING VISIBILITY CAT C 1/2 SM" - IAW 8260.3, CHAPTER 3 AND 8260.19I, 8-6-11.
16. NOTES: UPDATED CHART NOTE FROM "HELICOPTER VISIBILITY REDUCTION BELOW 1 SM NOT AUTHORIZED" TO "RWY 16 HELICOPTER VISIBILITY REDUCTION BELOW 3/4 SM NOT AUTHORIZED" - 20:1 OBS REMOVED BY AIRPORT; 34:1 PENETRATIONS EXIST.
17. NOTES: DELETED CHART NOTE "NIGHT LANDING RWY 16 NA" - 20:1 PENETRATIONS REMOVED AIRPORT.
18. NOTES: DELETED PROFILE NOTE "DESCENT ANGLE NA" - 20:1 PENETRATIONS REMOVED/UPDATED OIS SURVEY DATA/FULL AMDT; REQUESTING FLIGHT INSPECTION REVIEW.
19. NOTES: ADDED "CHART SPEED ICON IN PLANVIEW AT EENIE: MAX 250 KIAS" - SPEED RESTRICTION REQUIRED TO MAINTAIN EENIE TO TABSE SEGMENT LEG LENGTH - FPT/ATC REQUEST.
20. NOTES: ADDED CHART NOTE "VDP NA WHEN USING REDMOND ALTIMETER SETTING" - IAW 8260.19I, 8-6-9 E (9).
21. NOTES: ADDED CHART NOTE "VGSI AND DESCENT ANGLES NOT COINCIDENT (VGSI ANGLE {ANGLE}/TCH {FEET})" - IAW 8260.19I 8-6-9 M(2).
22. ADDITIONAL FLIGHT DATA: UPDATED PLANVIEW NOTE FROM "FINAL APPROACH COURSE OFFSET 12.70 DEGREES" TO "FINAL APPROACH COURSE OFFSET 12.69 DEGREES" - NEW EVALUATION SOFTWARE UTILIZED WITH UPDATED THRESHOLD COORDINATES SINCE PREVIOUS AMENDMENT.
23. ADDITIONAL FLIGHT DATA: UPDATED NOTE FROM "HOLD E, RT, 284.01 INBOUND" TO "HOLD N, RT, 200.00 INBOUND" - NEW MISSED APPROACH DESIGN.
24. ADDITIONAL FLIGHT DATA: UPDATED CHART FAS OBS FROM "3549 TREE 440603N/1211238W, 3509 TREE 440610N/1211145W" TO "3559 TREE 440542N/1211234W, 3519 TREE 440607N/1211142W" - UPDATED EVALUATION/MAP STUDY.
25. ADDITIONAL FLIGHT DATA: ADDED "CHART VDP AT 0.57 NM TO HONDU" - NO 20:1 PENETRATIONS.
26. ADDITIONAL FLIGHT DATA: ADDED "COMEK TO RW16: 3.12/50" - REQUESTING FLIGHT INSPECTION EVALUATION TO REMOVE "VISUAL SEGMENT-OBSTACLES".
27. MINIMUMS: UPDATED LP DA/HAT ALL CATS FROM 3760/328 TO 3780/348 - MAP STUDY IDENTIFIED NEW CONTROLLING OBSTACLE.
28. MINIMUMS: UPDATED LNAV MDA/HAT ALL CATS FROM 3800/368 TO 3820/388 - MAP STUDY IDENTIFIED NEW CONTROLLING OBSTACLE.
29. MINIMUMS: CIRCLING UPDATES: CAT A MDA/HAA FROM 3940/480 TO 3960/501; CAT B MDA/HAA FROM 4000/540 TO 3980/521; CAT C HAA FROM 660 TO 661; CAT D HAA FROM 1180 TO 1181 - MAP STUDY IDENTIFIED NEW CONTROLLING OBSTACLE AND AIRPORT ELEVATION CHANGE.
30. FAS DATA: UPDATED FTP LATITUDE/LONGITUDE FROM "440607.5155N/1211151.9615W" TO "440606.8105N/1211151.7405W" - UPDATED ARINAV DATA DUE TO NEW SURVEY.
31. FAS DATA: UPDATED FPAP LATITUDE/LONGITUDE FROM "440440.5730N/1211124.8960W" TO "440439.8675N/1211124.6740W" - UPDATED ARINAV DATA DUE TO NEW SURVEY.
32. FAS DATA: ADDED GPA/TCH 03.12/0005.0 - ADDING VDA AND GPA/TCH TO PROCEDURE.
33. CRC REMAINDER: UPDATED FROM "F7730909" TO "709919B5" - FAS DATA CHANGES.



AIRPORT ID
KBDN

PROCEDURE NAME
RNAV (GPS) Y RWY 16

ORIGINAL/AMENDMENT
3

CITY
BEND

STATE
OR

COORDINATED WITH:

A4A ☐ ALPA ☒ AOPA ☒ APA ☐ HAI ☐ NBAA ☒ OTHER: ZSE, ARPT MGR, OR AERO DIV

FLIGHT CHECKED BY

TROY E DEVINE

Digitally signed by

ALLAN WILL

Jun 06, 2023

OFFICE

FPO

DATE

06/01/2023

DEVELOPED BY

PATRICK COMBS

Digitally signed by

PATRICK W COMBS

Apr 21, 2023

OFFICE

AJV-A423

DATE

04/11/2023

APPROVED BY

MARLON ROBINSON

Digitally signed by

ALLAN WILL

Jun 06, 2023

OFFICE

AJV-A420

DATE

TITLE
MANAGER

QUALITY
8
CHECKED

FAS DATA BLOCK INFORMATION

<u>DATA FIELD</u>	<u>DATA</u>
OPERATION TYPE	0
SBAS SERVICE PROVIDER IDENTIFIER	0
AIRPORT IDENTIFIER	KBDN
RUNWAY	RW16
APPROACH PERFORMANCE DESIGNATOR	0
ROUTE INDICATOR	Y
REFERENCE PATH DATA SELECTOR	0
REFERENCE PATH IDENTIFIER (APPROACH ID)	W16B
LTP/FTP LATITUDE	440606.8105N
LTP/FTP LONGITUDE	1211151.7405W
LTP/FTP ELLIPSOIDAL HEIGHT	+10163
FPAP LATITUDE	440439.8675N
FPAP LONGITUDE	1211124.6740W
THRESHOLD CROSSING HEIGHT (TCH)	00050.0
TCH UNITS SELECTOR (METERS OR FEET USED)	F
GLIDEPATH ANGLE (GPA)	03.12
COURSE WIDTH AT THRESHOLD	106.75
LENGTH OFFSET	0000
HORIZONTAL ALERT LIMIT (HAL)	40.0
VERTICAL ALERT LIMIT (VAL)	00.0
 CRC REMAINDER	 709919B5

ADDITIONAL PATH POINT RECORD INFORMATION

ICAO CODE	K1
LTP ORTHOMETRIC HEIGHT	+10372
FPAP ORTHOMETRIC HEIGHT	+10372

